



# भारत का राजपत्र

## The Gazette of India

गोपनीय से प्रकाशित

BY GOVERNMENT AUTHORITY

18/16/Pt  
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सं. 16] नई दिल्ली, शनिवार, अप्रैल 19, 1986 (चैत्र 29, 1908)  
No. 16] NEW DELHI, SATURDAY, APRIL 19, 1986 (CHAITRA 29, 1908)

इस भाग में भिन्न पृष्ठ संख्या दे जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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#### PATENTS AND DESIGNS

Calcutta, the 19th April 1986

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## CORRIGENDUM

In the Gazette of India, Part III, Section-2 dated 4-1-86, 11-1-86, 25-1-86, 15-2-86, 22-2-86 and 1-3-86 in pages 1, 17, 39, 93, 115 and 155 respectively the heading should be read as under :

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH ROSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

13th March, 1986

- 195/Cal/86. Tai—Her Yang. One-way or Two-way motion internal combustion engine with exchange pressure-saved gas chamber and separate gas chamber. (Convention dated 13th March, 1985) Australia.  
 196/Cal/86. 1. Massey-Ferguson Manufacturing Ltd. and 2. Dronningborg Maskinfabrik A/S. Agricultural husbandry. (Convention dated 22nd March, 1985) U.K.  
 197/Cal/86. McGraw-Edision Company. Distribution line switchgear control employing a precision rectifier.  
 198/Cal/86. Bergood Pty. Limited. Improvements in masonry manufacture. (Convention dated 15th March, 1985) Australia.

14th March, 1986

- 199/Cal/86. Kembla Coal & Coke Pty. Limited. Excavating machine. (Convention dated 15th March, 1985 and 11th July, 1985) Australia.  
 200/Cal/86. American Cyanamid Company. Novel insecticidal carbamate derivatives.  
 201/Cal/86. Combustion Engineering, Inc. A future behavior equipment predictive system.  
 202/Cal/86. Rimrock Corporation. Reciprocator for die-casting machine.  
 203/Cal/86. Klein, Schanzlin & Becker Aktiengesellschaft. A device for lubricating shaft bearings.  
 204/Cal/86. Mitsui Toatsu Chemicals, Incorporated. Preparation process of (Meth) acrylamide.  
 205/Cal/86. Sri Prakash Chandra Chakraborty. Hydro carbon gas.

17th March, 1986

- 206/Cal/86. Dino Piccioli. Appartments for the discontinuous production of tubular structures or structures obtainable from tubular structures.  
 207/Cal/86. CRA Services Limited. Metallurgical composites and processes. (Convention dated 18th March, 1985) Australia.  
 208/Cal/86. Marcellus Carolus Paulus Livinus SIMKENS. Device for making ice cubes. (Convention dated 21st May, 1985) United Kingdom.  
 209/Cal/86. Celanese Corporation. Localized liquid additive applicator system for continuous cylindrical product.  
 210/Cal/86. Hoechst Aktiengesellschaft. Water-soluble azo Compounds, process for their preparation, and their use as dyes.

211/Cal/86. Hoechst Aktiengesellschaft. Water-soluble monazo and disazo compounds, process for their preparation, and their use as dyes.

212/Cal/86. NGK Insulators, Ltd. Multi-shed suspension insulator.

213/Cal/86. Richter Gedeon Vegyeszeti GYAR R.T. Novel 5-substituted sulfur-containing benzimidazole derivatives.

18th March, 1986

- 214/Cal/86. Mitsuba Electric Manufacturing Co., Ltd. Wiper driving unit.  
 215/Cal/86. Pradip Kumar Routh. Automatic engine & vehicle pollutant absorber.  
 216/Cal/86. Vsesojuzny Nauchno-Issledovatel'sky I Ispytatel'nyy Meditsinskoi Tekhniki. Device for formation of tunnel in retrosternum space.  
 217/Cal/86. Fried. Krupp Gesellschaft Mit Beschränkter Haftung. Tool—mounting assembly having an exchangeable tool head.  
 218/Cal/86. Allan International Manufacturing Pty. Ltd. Building systems and components for use therein. (Convention date 19th March, 1985) Australia.  
 219/Cal/86. Noel Carrol. Analysis of multi-phase mixtures. (Convention date 19th March, 1985) Australia.  
 220/Cal/86. Naba Kumar Bandopadhyay. Device for cleaning dirty surface e.g. of floor carpet.

19th March, 1986

- 221/Cal/86. Vsesojuzny Institut Po Proekthrovaniyu Organizatsii Energeticheskogo Stroitelstva Orgenergostroi. Conveyor assembly for erection of structures.  
 222/Cal/86. Belorusky Tekhnologichesky Institut Imeni S. M. Kirova. Wear-Resisting steel and method of its production.  
 223/Cal/86. Cliford R. Sloan. Extreme pressure additive for use in metal lubrication. (Convention date 20th March, 1985) Canada.  
 224/Cal/86. Kameshwar Patralekh. A voltage stabilizer.  
 225/Cal/86. Arthur Ernest Bishop and Klaus Juergen Roeske. Improved rotary valve. (Convention date 26th March, 1985) Australia.  
 226/Cal/86. Voest-Alpine Aktiengesellschaft. Apparatus for charging a shaft furnace for burning carbonaceous mineral material.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, III RD FLOOR, KAROL BAGH, NEW DELHI-5

24th February, 1986

- 150/Del/86. National Council for Cement and Building Material. "A method for casting a cladded reinforced concrete beam".  
 151/Del/86. Imperial Chemical Industries PLC. "Steam reforming hydrocarbons". (Convention date 5th March, 85; 25th July, 1985 and 21st August, 1985) (U.K.).  
 152/Del/86. Imperial Chemical Industries PLC "Synthesis gas". (Convention date 8th March, 1985 & 22nd November, 1985) (U.K.).  
 153/Del/86. Vapor Corporation, "Electrode configuration for a high voltage electrode boiler".  
 154/Del/86. The Lubrizol Corporation, "Metal salts of hydrocarbyl substituted aromatic phosphorodithioic acids".

155/Del/86. Lenzing Aktiengesellschaft, "Method of producing a tubular woven fabric and circular loom for carrying out the method".

156/Del/86. USM Corporation, "Weighing apparatus with improved weighing bucket".

25th February, 1986

157/Del/86. Indo Gulf Explosives Ltd, "High energy nitro-carbonitrile slurry explosives compositions".

158/Del/86. UOP Inc., "Maintaining gas flow during transfer of solids".

159/Del/86. The Firestone Tire & Rubber Co., "Improved storage of guayule by densification".

160/Del/86. Sanden Corporation, "Cylinder block for refrigerating compressor".

161/Del/86. General Foods Corporation, "Product and process for producing an agglomerated instant coffee having a roast ground appearance".

162/Del/86. J & C Enterprises B.V., "Flexible packaging container for pourable filling material". (Convention date 30th January, 1986) (U.K.).

163/Del/86. Tibana Pty. Ltd. "Paint composition". (Convention date 8th March, 1985) (Australia).

164/Del/86. Union Carbide Corporation, "Enhanced pressure swing adsorption processing".

165/Del/86. The M. W. Kellogg Co., "Back mixed hydro-treating reactor".

26th February, 1986

166/Del/86. Ashok Kumar, "Improved rubber latex foam upholstery product".

167/Del/86. The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, "Process for preparing an aluminium base alloy article". Convention date 26th February, 82 and 26th March, 1982) (U.K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI  
ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W).

60/Bom/86

Kali Prasad Poddar.

17-2-1986

A semi automatic corrugated board pasting machine.

18-2-1986

61/Bom/86

Tribhuwan Kumar Aggarwal

Improvements in or relating to punching/ perforating device suitable for performing punching hole in paper or the like.

62/Bom/86

Smt. Nayna Navnitlal Shah, Shri Rajesh Navnitlal Shah, Shri Deepak Navnitlal Shah and Shri Nitin Navnitlal Shah.

Improved digital lock for petrol caps and the like.

63/Bom/86

Do.

Improved digital lock for petrol caps and the like.

64/Bom/86

Searle (India) Limited.

19-2-1986

A process for the preparation of therapeutically active N-acyl-1, 2, 3, 4-tetrahydro-6-quinolinol esters.

65/Bom/86

Ratilal Narottamdas Panchal.

Permanent bolt fastner.

66/Bom/86

Rajesh Patel.

Modular container particularly for Badminton shuttle cocks.

67/Bom/86

Ratnakar Ganesh Patwardhan.

Garlic Pod Extractor.

26th February, 1986

168/Del/86. BP Chemicals Limited, "Paint Formulations". (Convention date 9th March, 1983) (U.K.). [Divisional date 23-2-84].

169/Del/86. Randolph Rudolph Olsen, "Method of manufacturing dry, wall building blocks". (Convention date 24th March, 1982) (U.K.). [Divisional date 24th March, 1983].

170/Del/86. Newport Pharmaceuticals International, Inc., "Process for the preparation of imidazole compounds". [Divisional date 30th May, 1983].

171/Del/86. Bendix Limited, "Two circuit fluid pressure control valves". (Convention date 21st March, 1985) (U.K.).

172/Del/86. Bendix Limited, "Two circuit fluid pressure control valves". (Convention date 21st March, 1985) (U.K.).

27th February, 1986

173/Del/86. Bal Krishan Gupta, "A leakage detector to check defective 'O' ring fitted inside the mouth of the LP gas cylinder valve".

174/Del/86. Pfizer Inc., "Crystalline anhydrous sodium 19-deoxyglycone dianemycin".

175/Del/86. Jean Guigan, "A method of performing biological analyses using immunological reactions, and apparatus for performing the method".

176/Del/86. Jean Guigan, "A method of performing medical analyses on a sample of liquid and using dry reagents, and apparatus for performing the method".

28th February, 1986

177/Del/86. Dymax Corporation, "Tissue signature tracking transceiver having upconverted I.F. amplification".

178/Del/86. The Lubrizol Corporation, "High molecular weight nitrogen containing condensates and fuels and lubricants containing same".

179/Del/86. General Foods Inc., "Incorporation of a clouding agent into a dry beverage mix".

180/Del/86. White Consolidated Industries Inc., "Quarter turn valve".

68/Bom/86	Shishir Kothari.	21-2-1986	Trapping gluc.
69/Bom/86	Do.		Rodent trap.
70/Bom/86	Larsen & Toubro Limited.	24-2-1986	Improvements in or relating to the process for the reduction roasting of ilmenite, sand.
71/Bom/86	Gordon Lee Williams.		Bio attenuation of carbohydrate effluent wastes.
72/Bom/86	Bharat Thakorebhai Desai.		Neutralisation of organically enriched effluent.
73/Bom/86	Kamlakar Vishwanath Athalye.	25-2-1986	Improved heat and acoustic control plastic glazing sheets for doors/windows and the like.
		27-2-1986	
74/Bom/86	Chandrashekhar Botham.		Drawing instrument.
75/Bom/86	M.D. Agrawal.		Memory playing cards.
76/Bom/86	Hindustan Lever Limited. (Divl. to PAT. APPL. NO. 64/Bom/84)		A method for preparing modified sodium chloride for use in preparing detergent compositions.
		28-2-1986	
77/Bom/86	The Arvind Mills Limited.		Apparatus to measure density of coal.
78/Bom/86	Jyoti Limited		A method of slot discharge protection of high voltage rotating electrical machines.

#### COMPLETE SPECIFICATION ACCEPTED

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CLASS : 143 C. 157519

Int. Cl. : B 65 b, 17/00.

#### "APPARATUS FOR FORMING AND SECURING A STRAP LOOP AROUND A PACKAGE".

Applicant : SIGNODE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 3600 WEST LAKE AVENUE, GLEN-

VIEW, ILLINOIS 60025, UNITED STATES OF AMERICA.

Inventor : JAMES ROSS ANNIS JR.

Application for Patent No. 13/Del/1982 filed on 6th January 1982.

Complete Specification left on 22-11-82.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 2 Claims

1. An apparatus for forming a strap (S) loop and securing it about an article wherein strap feed mechanisms (250, 274, 276) are provided for feeding the strap (S) to form a primary loop (LP) then expanding the said primary loop (LP), to a predetermined larger size loop (LF), permitting relative movement to be effected between said larger size loop (LF) and said article (P) to locate said larger size loop (LF) about said article (P), and then joining adjacent overlapped portions of the larger size loop (LF), to secure said larger size loop (LF), around said article (P); said apparatus characterised by :

- a guide surface (100, 224/205) defined by a part of a circular arc path provided in the assembly (164) along which said strap (S) is pressed and moved;
- a pressing anvil (104, 204) for pressing a first surface (110) of said strap (S) so as to urge a second surface (112) of said strap (S) against said guide surface (100, 224/205);
- a drive system (252, 438, 444, 446, 450, 452, 454, 456, 458, 460, 462) including a motor (252) operably connected with the anvil (104, 204) for moving said anvil (104, 204) while pressing said strap (S) against said guide surface (100, 224/205) so that a leading portion of said strap (S) is guided along said guide surface (100, 224/205) away from an initial location and then returned to said initial location in a closed loop path; and
- a slot or channel (102, 223) provided in the support table (154) of an assembly (164) for positioning a trailing portion of said strap (S) so that a

part of said trailing portion of said strap (S) lies at a location adjacent said initial location whereby said strap (S) has a configuration defining said primary loop (LP) with said leading portion of said strap (S) positioned adjacent said part of said trailing strap portion in overlapping relationship.

(Provisional Specification 36 pages. Prov. Drgs. 7 sheets.)  
(Complete specification 42 pages. Drgs. 7 sheets).

CLASS : 128 A & 128 G. 157520

Int. Cl. : A61b-19/00 & A61f-13/00.

**"A STERILE SURGICAL DRAPE".**

Applicant : GHANSHYAM DAS AGARWAL, AN INDIAN NATIONAL OF 14A PRIVATE COTTAGE, K. G. MEDICAL COLLEGE, LUCKNOW, INDIA.

Inventor : GHANSHYAM DAS AGARWAL.

Application for Patent No. 15/Del/1982 filed on 7th January 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**10 Claims**

A sterile surgical drape comprising a drape member adapted to cover the part of the body of a patient other than the surgical part, a window provided in said drape member and having a membrane comprising of, for example, polyvinyl chloride polyurethane or polyethylene, one side of said membrane having a coating of an adhesive and adapted to adhere to the surgical part of the body, said drape member having rigidity properties greater than that of said membrane.

(Complete specification 10 pages. Drg. 1 sheet.)

CLASS : 179 B. 157521

Int. Cl. B67c-3/16.

**"A VOLUMETRIC LIQUID DISPENSING DEVICE".**

Applicant : ROTOFIL INDUSTRIES, A REGISTERED PARTNERSHIP FIRM WHOSE PARTNERS ARE SATNAM SINGH, BIKSHANDAR-KOVL AMRITHALINGAM RAMACHANDRAN AND KULWANT KAUR, OF PLOT NO. C-11/1, MANSAROVER GARDEN, RING ROAD, NEW DELHI-110 015, INDIA, ALL INDIAN NATIONALS.

Inventor : SATNAM SINGH.

Application for Patent No. 16/Del/1982 filed on 7th January 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**2 Claims**

A volumetric liquid dispensing device comprising at least one cylinder adapted to be connected to a liquid source, a piston disposed within said cylinder to cause a suction and discharge cycle in its said cylinder, said piston being connected to at least one cam follower of a first cam for imparting a working stroke thereto, an outlet provided with said cylinder and connected to filling head for discharge liquid into a vessel supported on a lifting table characterized in an upper and lower turret, said lower turret being coupled to a drive source to impart a rotational movement thereto about said stationary pillar, a second cam supported on said lower turret, said second cam having a cam follower held to said lifting table, said cylinder and lifting table having a movement around a stationary pillar provided with said device.

(Complete specification 11 pages. Drg. 1 sheet).

CLASS : 169 B. I.

157522

Int. Cl. : F41d, 11/24.

**"BIPOD FOR A GUN AND A GUN EMBODYING THE SAME".**

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN.

Application for Patent No. 739/Del/1981 filed on 24th November, 1981.

Convention date 11-12-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

**9 Claims**

A bipod for a gun including a pair of legs each having one end thereof connected to a mounting means the mounting means comprising a forwardly facing part spherical ball for engagement with an aperture in the underside of the gun end a rearwardly facing mouth for cooperating with a lug, also on the underside of the gun, said lug being axially displaced from the aperture, the ball and mouth enabling the gun to roll about an axis passing through the centres of the part spherical ball and the lug and/or sweep across a field of fire.

(Complete specification 9 pages. Drgs. 6 sheets).

CLASS : 169 B. I.

157523

Int. Cl. F41d, 11/02.

**"A GUN HAVING A RECIPROCAL BOLT MEANS AND TRIGGER MECHANISM".**

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN.

Application for Patent No. 737/Del/1981 filed on 24th November, 1981.

Convention date 11-12-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

**4 Claims**

A gun including a receiver housing a reciprocal bolt means and a trigger mechanism, said trigger mechanism comprising a pivotally mounted trigger connected to rotate a pivotal sear having a rear part which is provided to selectively engage a lug on the bolt means and a notch in an upper surface of the sear which is also adapted to cooperate and engage with said lug when said lug is not engaged with said sear rear part, and a member mounted on the trigger axis and adapted to cooperate with a portion of the sear, said member being biased by a spring for movement with the trigger, whereby when the trigger is pulled to rotate the sear in a first direction out of engagement with the lug the member is initially prevented from moving with the trigger by the sear portion and when the lug is released by the sear the sear is further rotated in said first direction by the lug contacting the sear upper surface to free the said member to move toward the trigger and under said sear portion, thereby preventing the sear from rotating in direction counter to said first direction until the trigger is released.

Compl. specn. 10 pages.

Drgs. 2 sheets).

CLASS : 169 B. I.

157524

Int. Cl. : F41d, 11/06.

## "SEAR ACTUATOR FOR A GUN".

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN.

Application for Patent No. 736/Del/1981 filed on 24th November, 1981.

Convention date 11-12-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A sear actuator for a gun comprising a rotatable member extending between opposing walls of a receiver of the gun and movable with said member through like angles of movement, a slideable rod extending transversely to said member such that in a first position of the member said rod interconnects motion of the trigger to the sear, and in a second position of the member said rod is rotated so that the interconnection between trigger and sear is removed.

(Compl. specn. 7 pages.

Drgs. 3 sheets.)

CLASS : 169 A.

157525

Int. Cl. : F41d, 11/12.

## "GUN".

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN.

Application for Patent No. 735/Del/1981 filed on 24th November, 1981.

Convention date 11-12-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

A gun having a receiver within which reciprocates a bolt means actuably connected to a pivotable sear and a sear buffer, said sear buffer including a U-shaped member with bowed longitudinal arms, the free ends of which are secured to the pivotal sear, and locating means securing the sear buffer to the receiver whereby the arms act as an extension spring and the bow in the arms is temporarily reduced when the sear is contacted by the bolt means.

(Compl. specn. 9 pages.

Drgs. 2 sheets.)

CLASS : 169 B.

157526

Int. Cl. : F41d, 11/04 &amp; 11/06.

## "BOLT CARRIER ASSEMBLY FOR A GAS OPERATED GUN".

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN.

Application for Patent No. 730/Del/1981 filed on 24th November, 1981.

Convention date 11-12-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 21 Claims

A bolt carrier assembly for a gas operated gun, said assembly including a housing means within which a bolt is slidably mounted, a P cross sectionally shaped member having the longest side of the P shaped member secured to the housing means, said P shaped member being forwardly extended with respect to the bolt for contact by a gas cocking system provided along a barrel of the gun, and a main drive spring positioned alongside the wrapped over portion of the P shaped member for providing motion to the housing means and P shaped member.

(Compl. specn. 21 pages.

Drgs. 5 sheets.)

CLASS : 169 B.

157527

Int. Cl. : F41d 9/02.

## "DRUM MAGAZINE FOR A GUN".

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LIMITED, a company organised and existing under the laws of the Republic of Singapore, of 249, Jalan Boon Lay, Jurong Town, Singapore.

Inventor : LEROY JAMES SULLIVAN ROBERT LLOYD WATERFIELD.

Application for Patent No. 729/Del/1981 filed on 24th November, 1981.

Convention on 11th December, 1980/8039745/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 26 Claims

A drum magazine for a gun comprising a stationary housing an inner rotatably mounted member and an outer rotatably mounted member substantially concentric therewith, drive means between the housing and the inner rotatably mounted member for rotating the members in a first direction, stop means between the housing and the outer rotatably mounted member for limiting rotation of the outer member with respect to the housing, and latch means between the outer member and the housing for locking the outer member to the housing when the stop means limit the rotation of the outer member, said latch means thereby preventing rotation of the outer member in an opposite direction to the first direction until the latch means is unlocked by rotation of the inner member in said opposite direction.

(Compl. specn. 29 pages.

Drgs. 11 sheets).

CLASS : 169 A.

157528

Int. Cl. : F41d 9/02.

"GAS OPERATED AUTOMATIC OR SEMI AUTOMATIC GUNS".

Applicant : CHARTERED INDUSTRIES OF SINGAPORE PRIVATE LTD., A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE REPUBLIC OF SINGAPORE, OF 249, JALAN BOON LAY, JURONG TOWN, SINGAPORE.

Inventor : LEROY JAMES SULLIVAN.

Convention date 11th December, 1980/8039746/(U.K.).

Application for Patent No. 728/Del/1981 filed on 24th November, 1981.

Convention date 11-1-1980/8039739/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

A gas operated automatic or semi-automatic gun including a receiver having a rear wall at one end and a barrel at the other end, the said receiver also having a cartridge feed station, and movable within the receiver a bolt means adapted to cooperate with a main drive spring which urges said bolt means toward the barrel and a gas means for driving the bolt means toward said rear wall, the dimensioning of the receiver, gas means and bolt means providing feed overtravel equal to or greater than the overall length of a live cartridge and eliminating rear wall impact by the bolt means.

Compl. specn. 38 pages.

Draws. 8 sheets.

CLASS : 9 B &amp; E.

157529

Int. Cl. C 22 c 23/00.

A METHOD OF MAKING A MAGNESIUM ALLOY.  
Applicants : MAGNESIUM ELEKTRON LIMITED, OF TUMIN'S LANE, CLIFTON JUNCTION, SWINTON, MANCHESTER, ENGLAND.

Inventors : 1. WILLIAM UNSWORTH, 2. JOHN FREDERICK KING, 3. STEPHEN LEE BRADSHAW.

Application No. 339/Cal/82 filed 25 March, 1982.

Convention date 25th March, 1981 (8109364) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A method of making a magnesium alloy which comprises mixing magnesium with the following constituents :

(a) from 1.5 to 10% by weight of an yttrium component as herein described consisting of at least 60% by weight of yttrium and the balance if any, of heavy rare earth metals, and

(b) from 1 to 6% by weight of a neodymium component as herein described consisting of at least 60% by weight of neodymium, not more than 25% by weight of lanthanum and substantially all the balance, if any, of praseodymium, the remainder of the alloy consisting of magnesium

Compl. Specn 26 pages.

Draws. Nil.

CLASS : 85 R.

157530

Int. Cl. F 27 b 1/24.

## COOLING ARRANGEMENT FOR SHAFT FURNACES.

Applicants : 1. VSESOUJZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT PO OCHISTKE TEKHNOLOGICHESKIH GAZOV, STOCHNYKH VOD I ISPOLZOVANIU VTORICHNYKH ENERGORESURSOV PREDPRIYATY CHERNOI METALLURGI "VNIPICHERMETENERGOCHUSTKA", OF KHARKOV, PROSPEKT LENINA 9, U.S.S.R.

2. ZHDANOVSKY METALLURGICHESKY ZAVOD IMENI ILLIKA, OF ZHDANOV, USSR; AND

3. GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT METALLURGICHESKOI PROMYSHLENNOSTI "GIPROSTAL", OF KHARKOV, PROSPEKT LENINA 9, USSR.

Inventors : 1. LEV DMITRIEVICH GRITSUK.

2. ANATOLY STEPANOVICH GORBIK.

3. LEONID DAVIDOVICH GOLOD.

4. DORINA BORISOVNA KUTSYKOVICH.

5. KAZIMIR DOMINKOVICH BASHINSKY.

6. SERGEI VASILIEVICH SAMOFAL.

7. IGOR MIKHAILOVICH PEETIEV.

8. VIKTOR PETROVICH BOGADITSA.

9. ALEXANDR NIKOLAEVICH KULAGIN.

10. GENNADY EVGENIEVICH GORYAINOV.

11. JURY GRIGORIEVICH BANNIKOV.

12. SEMEN MIKHAILOVICH LIDERMAN.

13. GEORGY VLADIMIROVICH NIKOLAEV.

14. VITALY NIKOLAEVICH MISCHENKO.

15. VALENTIN VIKTOROVICH GROMENKO.

16. ALEXEI MIKHAEVICH KAMARDIN.

17. NIKOLAI STEPANOVICH KOBETS.

Application No. 1181/Cal/82 filed October 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A cooling arrangement for shaft furnaces, comprising at least two spaced apart metallic cooling tubes arranged so that with the cooling arrangement in position they are adjacent the furnace shell, substantially parallel to its longitudinal generating line; metallic tie plates each having a first edge portion tangentially welded to the shell side of an adjacent cooling tube of at least two cooling tubes along the generatrix of the tube surface, and a second edge portion welded to the other adjacent cooling tube of at least two cooling tubes along the generatrix of the tube surface in the region defined by tangents to the shell and the furnace sides of the same tube from the location where the first edge portion of each tie plate is welded between adjacent tie plates along the height of the cooling arrangement there being a spacing extending along the length of the tie plate laterally of the cooling arrangement; a metallic frame embracing the cooling arrangement, having walls extending along the cooling tubes and slotted their whole width to compensate for heat expansion and together with the cooling tubes and the tie plates defining a space filled with a refractory material.

Compl. specn. 17 pages.

Draws. 2 sheets.

CLASS : 52 A.

157531

Int. Cl. : B 26 d 1/14.

## MOVABLE CUTTING MACHINES.

Applicants : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. HERWIG WRULICH, 2. ALFRED ZITZ, 3. ERICH BRANDLE.

Application No. 1185/Cal/82 filed October 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A movable cutting machine comprising a cutting device, particularly formed of a universally swivelling cutting arm arranged on a swivelling means and carrying cutting heads, characterized in that the cutting machine is subdivided into a front cutting machine portion (1 : 21) carrying the cutting means (5, 6, 7) and into a rear cutting machine portion (2 : 23) carrying auxiliary equipments and/or part of the conveyer means formed, for example, of a conveyer trough (13 : 33), the front cutting machine portion (1 : 21) of said cutting machine portions having a chassis (3 : 22), particularly a caterpillar drive, and the rear cutting machine portion (2 : 23) being supported against ground or being adapted for being supported against ground, and in that both cutting machine portions (1, 21 : 2, 23) are linked one to the other for being swivelled around an approximately vertical swivell axis (10 : 24) and for being secured against relative movement in direction of the vertical swivelling axis (10 : 24).

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 71 C.

157532

Int. Cl. : E 02 f 5/00, 9/14.

## EARTH MOVING MACHINE.

Applicants : PRIESTMAN BROTHERS LIMITED, OF HEDON ROAD, HULL, HU9 5PA, ENGLAND.

Inventors : 1. NORMAN BROCKLEBANK, 2. KEN-NETH ALBERT DEIGHTON.

Application No. 1252/Cal/82 filed October 21, 1982.

Convention date 21st October, 1981 (8131708) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

An earthmoving machine comprising a boom (8) pivotally mounted intermediate its ends about a generally horizontal axis (9), an arm (12) pivotally mounted at one end of the boom, and a movable counter-weight (22) at the other end of the boom, characterized in that the counterweight (22) and arm (12) are connected so that the counterweight (22) moves radially outwardly along the boom (8) simultaneously with radial outward pivoting of the arm (12) relative to the pivot axis (9) of the boom in order to maintain the desired degree of balance of the machine, the end of the arm (12) remote from the boom (8) being attached to a cable (26) which extends from a winch (25) mounted on the machine remote from the pivot point of the arm on the boom, whereby the end of the arm (12) remote from the boom can be drawn inwards towards the pivot point (9) of the boom (8) by means of the winch (25).

(Compl. Specn. 12 pages.

Drgs. 3 sheets).

CLASS : 127 I.

157533

Int. Cl. : F 16 c 11/06; F16d 3/00.

## ARTICULATION DEVICE HAVING A DOUBLE UNIVERSAL JOINT AND A BALL JOINT UNIT.

Applicants : NADELLA, OF 16 AVENUE DE LA REPUBLIQUE, 92503 RUEIL-MALMAISON, FRANCE.

Inventors : BERNARD MALLET.

Application No. 1289/Cal/82 filed November 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

An articulation device having a double universal joint and a ball joint unit for transmitting a movement of rotation between a driving shaft and a driven shaft which are adapted to be rendered rigid respectively with a first universal joint fork member and a second universal joint fork member, each of which fork members carrying one of the elements of the ball joint unit and being connected by spiders to an intermediate connecting means, wherein each of the elements of the ball joint unit is constructed in the form of a fork member whose branches are engaged between and in contact with the branches of the corresponding fork member of the device, and whose web carries a projection which cooperates with a complementary projection provided on the other element of the ball joint unit, the fork members of each of said elements of the ball joint unit having in their branches transverse apertures receiving inwardly projecting portions of rolling bearings by means of which rolling bearings the spiders are mounted in the branches of the fork members of the articulation device.

(Compl. Specn. 12 pages.

Drgs. 2 sheet).

CLASS : 130 F.

157534

Int. Cl. : C 22 b 19/30.

## A REACTION INSTALLATION FOR THE RECOVERY OF ZINC CONTAINED IN SCRAP, RESIDUES AND MATTES OF THAT METAL.

Applicants &amp; Inventors : JUAN BLAS SITGES MENENDEZ, OF C/DE PONIENTE NO. 3, URBANIZACION MONTE ALINA, POZUELO DE ALARCON (MADRID-23), SPAIN.

Application No. 1328/Cal/82 filed November 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A reaction installation for the recovery of zinc contained in scrap, residues and mattes of that metal, comprising a tank for containing the mattes, scrap or residues in a molten state, in which tank there is disposed a paddle wheel mounted on a vertical shaft which is supported by an upper head member which is displaceable in a vertical direction and which carries both the motor for driving the shaft and a closure cover for the tank, the head member in turn being supported by a horizontally displaceable carriage while the tank is mounted on two external upper supports which define a rotary axis normal to the axis of the tank and permit it to be lowered, characterized in that, in its side wall the tank has a peripheral chamber which surrounds the internal refractory coating and an upper annular chamber disposed around the seating for the cover; and that the blades of the paddle wheel are co-planar with the axis of the tank so that they produce in the molten material a flow in a radial direction which impinges against the wall of said tank; a helicoidal transverse partitioning wall extending through the interior of the peripheral chamber and forming a helicoidal conduit which opens radially to the outside by way of an

upper orifice and a further lower orifice, which are provided in the outside wall of said chamber for the flow of cooling air, while the upper annular chamber communicates with the interior of the tank by way of the cover and has an external orifice for connection of a suction conduit.

Compl. Specn. 15 pages.

Drgs. 8 sheets.

CLASS : 99 H. 157535

Int. Cl. : B 65 d 17/00.

**A METHOD AND APPARATUS FOR MANUFACTURING CONTAINERS HAVING EXTERNAL CURL ON THE SIDEWALL AND CONTAINERS MANUFACTURED THEREBY.**

Applicants : METAL BOX p.l.c., OF QUEENS HOUSE, FORBURY ROAD, READING, RG1 3JH, BERKSHIRE, ENGLAND.

Inventor : CYRIL ARTHUR BULL.

Application No. 1348/Cal/82 filed November 19, 1982.

Convention date 19th November 1981 (8134933) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

A method of manufacturing containers having external curl on the side wall comprising the steps of engaging a first die with an upper surface of the curl so that a groove in the die prevents lateral spread of the curl, and applying a second die to an underneath surface of the curl so that relative motion, in a direction parallel to the axis of the body, as between the first and second dies imposes a crushing force to create a reformed curl having a first annulus of arcuate cross-section extending outwardly in a lateral direction from the side wall to define a convex external surface; a folded portion turning radially inwards from the outer periphery of the first annulus, and a second annulus extending radially inwards from the folded portion so that a convex surface of the second annulus extends adjacent to a concave inner surface of the first annulus and a marginal edge portion of the second annulus extends between the convex surface of the second annulus and the concave surface of the first annulus.

Compl. Specn. 18 pages.

Drgs. 4 sheets.

CLASS : 116 C. 157536

Int. Cl. : B 65 g 15/00.

**AN APPARATUS FOR TRANSFERRING BULK MATERIAL TO AND FROM BOTH WAYS USING A FLEXIBLE TUBULAR ENDLESS BELT.**

Applicants : JAPAN PIPE CONVEYOR CO. LTD., OF 1-1, 1-CHOME, SAKAI-MACHI, KOKURAKITA-KU, KITAKYUSHU-SHI, FUKUOKA-KEN, JAPAN AND HARUO OKAZAKI OF 1-2-20 MIYANO-MACHI, YAHATA-HIGASHI-KU, KITA-KYUSHU, FUKUOKA-KEN, JAPAN.

Inventor : KUNIO HASHIMOTO

Application No. 1455/Cal/82 filed December 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

An apparatus for transferring bulk material to and from both ways using a flexible tubular endless belt, wherein a pipe-formed flexible tubular endless belt is extended between loading and unloading points spaced apart one another at a certain distance in any heights, and is opened at the loading and the unloading points, and wherein both side edges of the flexible tubular endless belt, overlapping one another along

its longitudinal direction, are positioned upside in the going path, the improvement which comprises :

- (a) first twisting means which twists the flexible tubular endless belt passed through the unloading point through 180 degree in the return path;
- (b) means for feeding bulk material into the flexible tubular endless belt opened;
- (c) means for rolling up the flexible tubular endless belt so as to wrap completely the bulk material therein;
- (d) support rollers which support the pipe-formed flexible tubular endless belt transferring the bulk material in the return path;
- (e) means for opening the pipe-formed flexible tubular endless belt;
- (f) means for discharging the bulk material from the opened flexible tubular endless belt; and
- (g) second twisting means which twists again the flexible tubular endless belt through 180 degree in the return path before the loading point.

Compl. Specn. 22 pages.

Drgs. 6 sheets.

CLASS : 48 D. 157537

Int. Cl. : H 02 g 7/14.

**SPACER-DAMPER FOR A BUNDLED CONDUCTOR OF AN ELECTRIC LINE.**

Applicants : INNOCENTE RIGANTI OFFICINE MECANICHE S.p.A. OF VIA VITTORIO VENETO, 1-SOLBIATE ARNO, ITALY.

Inventor : INNOCENTE RIGANTI.

Application No. 1459/Cal/82 filed December 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

Spacer-damper for a bundled conductor of an electric line comprising a support on which as many arms for holding sub-conductors are articulated as sub-conductors in the bundle of conductors there are characterised in that each joint between the support and an arm comprises at least one frame integral with or fixed to the support and contained in a plane containing the support, or in a plane anyhow inclined with respect of the plane containing the support, or in place (s) coincident with or parallel to the plane containing the support, a core positioned within the frame, a plurality of elastic elements each having one end fixed to the frame and the other end fixed to the core for keeping the core itself elastically within the frame, the elastic elements being symmetrically spaced around the periphery of the core, an arm which bears on one end a clamp for clamping a sub-conductor and which is fixed by the other end to the core for the latter being allowed to move elastically within the frame under the action that the relevant sub-conductor transmits to the arm, in any direction.

Compl. Specn. 14 pages.

Drgs. 3 sheets.

CLASS : 190 B. 157538

Int. Cl. : B 64 c 11/16.

**BLADE FOR A ROTATING MACHINE.**

Applicants : KRAFTWERK UNION AKTIENGESELLSCHAFT, 433 MULHEIM (RUHR) WIESENSTR. 35, FEDERAL REPUBLIC OF GERMANY.

Inventor : BEBE-TITU PURCARU.

Application No. 1497/Cal/82 filed December 28, 1982.  
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A blade for a rotating machine, the blade having a leading edge and a trailing edge and between the leading and trailing edges a suction side and a pressure side; wherein a cross-section of the pressure side comprises an elliptical section extending from the vicinity of the leading edge, a first circular section extending from the vicinity of the trailing edge and, between the first circular section and said elliptical section, a concave portion defined by :

- (a) a second circular section extending from said elliptical section; and
- (b) a parabolic section of a second or higher order parabola extending between the first and second circular sections.

Compl. Specn. 15 pages. Drgs. 1 sheet.

CLASS : 169A. 157539

Int. Cl. : F41f 17/16.

## A RAMMING MECHANISM FOR A FIRFARM.

Applicant : AKTIEBOLAGET BOFORS, A JOINT-STOCK COMPANY ORGANISED UNDER THE LAWS OF SWEDEN, OF S-691 80 BOFORS, SWEDEN.

Inventor : STEN HALLQVIST.

Application for Patent No. 884/Del/1980 filed on 9th December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 9 Claims

A ramming mechanism for a firearm comprising a rammer car mounted for movement in a predetermined direction from an initial position to a ramming position said car having a first unit with a rammer head attached thereto and a second unit means coupling said units to rotate the first unit relative to the second unit on movement thereof in said predetermined direction, and means to move the second unit from said initial position in said predetermined direction to rotate said first unit and thereby said rammer head and thereafter move both units together towards said ramming position.

Compl. Specn. 14 pages. Drgs. 4 sheets.

CLASS : 119D. 157540

Int. Cl. : D03d 47/00.

## A POWER LOOM.

Applicant : THE SOLE TRUSTEE OF SHRI GAUR DHAM TRUST (REGD.), SHRI RADHAKUND, DIST. MATHURA, U.P., INDIA.

Inventor : SRI NARHARI DAS.

Application for Patent No. 354/Del/1981 filed on 3rd June, 1981.

Patent of addition to application No. 121/Del/80 dated 20 February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 15 Claims

A shuttle-less power loom comprising a first and second rapier, a yarn package for feeding weft yarn to said first rapier, said second rapier adapted to receive the yarn from said first rapier, a sley having a reed for effecting a beating action as described in parent patent application No. 121/Del/80, characterized in that a single fluid motor means is

provided to cause the movement of the said first and the second rapier; each of the rapiers being secured through a link to its respective driven members, said driven members being actuated by a drive assembly operated by the said single fluid motor means.

Compl. Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 119D.

157541

Int. Cl. : D03d 47/00.

## A POWER LOOM.

Applicant : THE SOLE TRUSTEE OF SHRI GAUR DHAM TRUST (REGD.), SHRI RADHAKUND DIST. MATHURA, U.P., INDIA.

Inventor : SRI NARHARI DAS.

Application for Patent No. 546/Del/1981 filed on 25th August, 1981.

Addition to patent application No. 121/Del/80 dated 20th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A shuttle-less power loom comprising a first rapier and a second rapier; a yarn package for feeding weft yarn to said first rapier, said second rapier receiving the yarn from the said first rapier, a sley having a reed for effecting a beating action as described in application for Patent No. 121/Del/80 for the main invention characterised in that a single fluid pressure cylinder is provided for moving the two rapiers through a drive member, a driven member receiving movement from the drive member, and in that the said rapiers are secured by separate links to the said driven member.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 40 B & 32 F1.

157542

Int. Cl. : B01j. 11/00 & C07c, 17/00.

PROCESS FOR THE PRODUCTION OF 1, 2-DICHLOROETHANE BY OXYCHLORINATION OF ETHYLENE IN THE PRESENCE OF A CATALYST.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JP, ENGLAND, A BRITISH COMPANY.

Inventors : PHINEAS DAVIES, JAMES ROBERT JENNINGS & JACK WOLSTENHOLME.

Application for Patent No. 05/Del/1982 filed on 1st January, 1982.

Convention date 15-1-1981 and 14-7-1981/8101137 and 8121714/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 14 Claims

A process for the production of 1, 2-dichloroethane by reacting ethene with hydrogen chloride and molecular oxygen in the presence of a catalyst comprising a copper compound, magnesium oxide and aluminium oxide, characterised in that the copper compound is present as a distinct phase on a support comprising magnesium oxide and aluminium oxide, at least part of the magnesium oxide being present in combini. form in the support.

A process as claimed in any one of the preceding claims in which the copper compound of the catalyst is copper chloride.

Compl. Specn. 12 pages.

Drgs. 1 sheet.

CLASS : 32 E.

157543

Int. Class : C08 f 1/06, 3/00, 3/04, 3/06.

## VAPOR PHASE BLOCK COPOLYMERIZATION PROCESS.

Applicant : EL PASO POLYOLEFINS COMPANY, OF W. 115 CENTURY ROAD, PARAMUS, NEW JERSEY 07652, UNITED STATES OF AMERICA.

Inventor : EDWARD AUGUST ZUKOWSKI.

Application for Patent No. 72/Del/1982 filed on 30th January, 1982.

Convention date on 14th April, 1981/8111854/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 23 Claims

A continuous sequential vapor phase block copolymerization process for the production of impact resistant ethylene-propylene polymers at high productivity rates, which comprises :

(A) providing a preformed propylene polymer in finely divided form, said preformed polymer containing active catalyst residues and having been prepared by polymerizing propylene in the presence of a catalyst composition containing the components

(a) an aluminium trialkyl or an aluminium trialkyl at least partially complexed with an electron donor compound, and

(b) titanium tri- or tetrahalide supported on magnesium dihalide, or a complex of a titanium tri- or tetrahalide with an electron donor compound supported on magnesium dihalide, the components (a) and (b) being provided in a molar ration of Al/Ti between 10 and 200;

(B) introducing said preformed polymer, ethylene and propylene into at least one continuously agitated reaction zone,

(C) introducing an additional quantity of component (a) to said reaction zone, said quantity ranging from 5 to 50% of the quantity provided in the preparation of the prepolymer; and

(D) co-polymerizing said ethylene and propylene monomers in the vapor phase in the reaction zone onto said preformed propylene prepolymer.

(Complete specification 24 pages).

CLASS : 40 B &amp; 32 E.

157544

Int. Cl. : B01j 11/00 &amp; C08f 3/00.

## PROCESS FOR THE PREPARATION OF A PROPYLENE POLYMER.

Applicant : EL PASO POLYOLEFINS COMPANY, OF W. 115 CENTURY ROAD, PARAMUS, NEW JERSEY 07652, UNITED STATES OF AMERICA.

Inventors : CIPRIANO CIPRIANI, CHARLES ANTON TRISCHMAN & HAROLD KURT FICKER.

Application for Patent No. 75/Del/1982 filed on 30th January, 1982.

Convention date on 17th February, 1981/8104880/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 20 Claims

A process for the preparation of a propylene polymer having a meltflow range between 0.2 and 30 g/10 min., isotactic index not less than 92%, dimer-trimer content not exceeding 4 g/kg, crystalline melting point of at least 165°C, ratio of weight-average molecular weight to number-average molecular weight (Mw/Mn) at least 7, Ti content not exceeding 3 ppm, Mg content not exceeding 40 ppm, Cl content not exceeding 100 ppm and total ash content not exceeding 400 ppm comprising continuously feeding propylene monomer and catalyst composition to a polymerization reactor, polymerizing the propylene at a temperature between 115°F and 175°F and at a sufficiently elevated pressure to maintain at least a portion of the propylene in liquid phase, withdrawing product in a substantially continuous fashion as a slurry in liquid propylene, wherein the catalyst composition is comprised of components :

- (a) an aluminium trialkyl or an aluminium trialkyl at least partially complexed with an electron donor compound of the kind such as herein defined, and
- (b) titanium tri- or tetrahalide supported on magnesium dihalide or a complex of a titanium tri- or tetrahalide with an electron donor compound of the kind such as herein defined supported on magnesium dihalide.

(Complete specification 15 pages).

CLASS : 32.F.2.C.

157545

Int. Class : C 07C 121/32.

## A PROCESS FOR AMMOXIDIZING PROPYLENE TO PRODUCE ACRYLONITRILE.

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT AND LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO, 44115, UNITED STATES OF AMERICA.

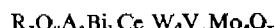
Inventors : JAMES FRANK BRAZDIL, DEV DHANRAJ SURESH & ROBERT KARL GRASSELLI.

Application for Patent No. 90/Del/1982 filed on 3rd February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 17 Claims

A process for ammonoxidizing propylene to produce acrylonitrile comprising reacting for method such as herein described propylene, ammonia and an oxygen-containing gas with a bismuth cerium molybdate oxide complex oxidation catalyst of formula :



wherein A is alkali metal, Tl, Sm, Ag, Cu, or mixtures thereof :

Q is Te, Ti, Zr, Th or mixtures thereof;

R is Cr, Sb or a rare earth IIIIB element other than Ce and Sm or mixtures thereof; and

wherein a is 0 to 6;

b is 0.01 to 24;

c is 0.01 to 24;

O  $\leq$  d + e  $\leq$  f;

d + e + f is 8 to 16;

q is 0 to 24;

r is 0 to 24;

a + q + r > 0

x is a number sufficient to satisfy the valence requirements of the other elements present at elevated temperature to produce said acrylonitrile, characterised in that said catalyst containing a promoting amount of an alkali metal, Tl, Sm, Ag, Cu, Cr, Sb, rare earth metal other than Ce and Sm, Te, Ti,

Zr, Th, or mixture thereof, wherein the molar ratios of (Bi + Ce) : (W + V + Mo) is in the range from 1/2 to 5/6 inclusive.

(Complete specification 25 pages).

CLASS : 85 C & R.

157546

Int. Cl. : F 27b 1/20, 9/14; F 27d 3/00, 19/00.

**"APPARATUS FOR CONTROLLING THE MOVEMENT OF AN OSCILLATING SPOUT".**

Applicant : PAUL WURTH S.A., OF 32, RUE D'ALSACE, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG, A COMPANY ORGANIZED UNDER THE LAWS OF LUXEMBOURG.

Inventors : EDOUARD LEGILLE & PIERRE MAILLIET.

Application for Patent No. 177/DEL/1982 filed on 3rd March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**10 Claims**

Apparatus for controlling the movement of an oscillating spout capable of pivoting about two orthogonal axes, the first axis being the suspension axis (X) of the spout (24) between two branches of a fork (26) while the second axis is the longitudinal axis (Y) of the fork (26) about which latter axis the said fork can pivot integrally with the spout (24), the apparatus comprising a control device (46, 116) oscillating with the same degrees of freedom as the spout (24), a driving device (60, 168) for imparting to the control device (46, 166), the movement which the spout (24) is required to perform and a transmission device for causing the movement of the control device (46, 166) to be repeated by the spout (24) and vice versa, characterised by a first means for causing the spout to pivot about the first axis (X), a second means for causing the fork (26) and the spout (24) to pivot about the second axis (Y) and a servo device subordinated to the movement of the control device (46, 166) and to the movement of the spout (24), in order to coordinate the actions of the said first and second means and to control them in accordance with the changes in the position and orientation of the control device (46, 166), and the spout (24) in relation to each other.

Compl. Specn. 22 pages.

Drgs. 9 sheets.

CLASS : 85 C, R & 99 G.

157547

Int. Class : F27d 3/12, F27b 1/20 & B21d 51/42.

**"AN APPARATUS FOR ACTUATING AN OSCILLATING SPOUT".**

Applicant : PAUL WURTH S.A., OF 32, RUE D'ALSACE, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventor : LEGILLE EDOUARD & MAILLIET PIERRE.

Application for Patent No. 183/DEL/1982 filed 5th March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

**24 Claims**

An apparatus for actuating an oscillating spout suspended in an enclosure under pressure between two branches of a fork is supported in a bearing mounted in the side wall of the enclosure characterized by an oscillating control device mounted outside the enclosure on a pivot shaft traversing the fork parallel to the suspension axis of the spout, a driving mechanism for imparting a pivoting movement to the oscillating control device about its pivot shaft and a pivoting movement to the fork about its longitudinal axis, wherein at least the body of the work is hollow and contains a trans-

mission mechanism serving to convert the pivoting movement of the control device about its pivoting shaft into a corresponding pivoting movement of the spout about its suspension axis.

(Complete specification 41 pages. Drawings 20 sheets).

CLASS : 85 C & R.

157546

Int. Cl. : F 27b 1/20, 9/14; F 27d 3/00, 19/00.

CLASS : 155 D & 101 F.

157548

Int. Class : F04c 9/00

**"WATER ENGINE".**

Applicant : AUR HYDROPOWER LIMITED, A BRITISH COMPANY OF 8 ST. BRIDGE STREET, LONDON EC4, ENGLAND.

Inventor : ERIC MONTGOMERY WILSON, GEOFFREY NORMAN BULLOCK.

Application for Patent No. 207 DEL/1982 filed on 15th March, 1982. Convention date on 26th March, 1981 / 8109477/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

**10 Claims**

A water engine for extracting energy from a head of water in combination with a barrage having a differential head of water between upstream (W) and downstream (W') sides, said barrage defining within it at least one working chamber (W) a water-driven double-acting piston member (W) disposed in said at least one working chamber for horizontal reciprocal movement therein, said piston member dividing said working chamber into first and second parts, at least one valve means having a plurality of operating positions disposed in said working chamber for admitting water from the upstream side of the barrage to flow alternately into the first part of said chamber and then into the second part and simultaneously for allowing water to be discharged to the downstream side of the barrage by flowing alternately from the second part of said chamber and then from the first part the flow of water causing said piston member to reciprocate back and forth in said working chamber, said valve means also allowing direct flow of water from the upstream to the downstream side of the barrage, and means connecting said piston member directly to a power generator which utilises the reciprocal movement of the piston member to generate power.

(Complete specification 12 pages.

Drawing 3 Sheets.)

CLASS : 85 C, R & 99 G.

157547

Int. Class : F27d 3/12, F27b 1/20 & B21d 51/42.

CLASS : 44, 103, 109, 188.

157549

Int. Cl. : A 45 b 5/00.

**A PROTECTIVELY COATED ARTICLE OF JEWELLERY SUCH AS A WRIST-WATCH COMPONENT AND METHOD OF PRODUCING THE SAME.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : RICHARD ALLEN HOFFMAN.

Application No. 1007/Cal/81 filed on 8th September, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

**19 Claims**

A protectively coated article of jewellery such as a wrist-watch component that is composed of a base metal and is coated with at least one sputter deposited layer comprising various metal such as gold or gold alloy, said layer having a thickness substantially less than 100,000 Angstroms and is

protected from scratches and abrasion damage, when the jewellery article is in use, by at least one thin adherent substantially transparent protective film comprising an inert non-metallic material selected from the group consisting essentially of  $\text{SiO}_2$ ,  $\text{SiC}$ ,  $\text{Si}_3\text{N}_4$ ,  $\text{TiO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{MgO}$ ,  $\text{Ta}_2\text{O}_5$ ,  $\text{Nb}_2\text{O}_5$ ,  $\text{GeO}_2$  spinel and selected glasses such as herein described, said material having:

A Knoop hardness in the range of from about 400 to about 2500 and is thus of sufficient hardness to be resistant to both scratches and abrasion.

a refractive index in the range of from about 1.4 to about 2.8.

said protective film having a thickness that is in the range of from about 14,000 to about 40,000 Angstroms and is also so correlated relative to the refractive index of the non-metallic inert material comprising said film that the film, in addition to being substantially transparent, is substantially devoid of discoloration due to optical interference effects that otherwise would be produced by incident light rays and thus alter the natural pleasing appearance of the underlying gold coated surface of the jewellery article,

said base metal and sputtered layer comprising precious metal having a thermal expansion coefficient greater than that of said protective film,

said protective coated article of jewellery including at least one material-layer which is physically in contact with and in-between said protective film and said sputtered layer comprising precious metal,

said material-layer comprising a substantially transparent material having a thermal expansion coefficient greater than that of the protective material and less than that of said sputtered layer comprising precious metal,

said material-layer acting as a buffer means to reduce stresses caused by differences in thermal expansion of said protective film and said sputtered layer comprising precious metal,

said base metal optionally comprising a layer of an adhesion-enhancing material disposed between the base metal and the coating of precious metal.

(Compl. Specn. 35 pages.)

Drg. 2 sheets.)

CLASS : 172 C<sub>11</sub> & 9.

157550

Int Cl. : D 01 g 7/00; 7/04.

#### TAKE-OFF ROLL FOR MECHANICALLY OPENING FIBRE BALES.

Applicant : MASCHINENFABRIK RIETER A. G., OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors : 1. ROLF BINDER, 2. DAVID EGLOFF, 3. DANIEL HANSPLMANN.

Application No. 157/Cal/82 filed on February 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

Take-off roll for mechanically opening fibre bales by loosening fibre flocks herefrom using circular toothed discs mounted along and on a rotatable shaft, which discs are provided on their outer circumference with teeth, characterized in that each of the toothed discs comprises two-half-discs (15, 16), which substantially are of the form of a half circular ring, that for each half-disc (15, 16) an approximately half circular ring cup (17, 18) is provided, that each half-disc (15, 16) is embedded in a cast cup (17, 18), and that the cups (17, 18) of half-discs (15, 16) forming a toothed disc together surround the shaft (12) in ring form and are relatively fixed mutually and are rightly connected to the shaft (12) using a press fit.

(Compl. Specn. 10 pages.)

Drg. 2 sheets).

CLASS : 103 B<sub>1</sub>.

157551

Int. Cl. : C 21 b 13/02.

#### METHOD AND APPARATUS FOR THE REDUCTION OF METAL ORES.

Applicant : HYLSA, S.A., OF APDO. POSTAL 996, MONTERREY, N. L. MEXICO.

Inventor : JUAN—LUIS SAN JOSE—ALCALDE.

Application No. 207/Cal/82 filed on February 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 19 Claims

A method for the reduction of iron ore to iron in a vertical shaft moving bed reactor which comprises establishing and maintaining a reduction zone in the upper portion thereof in which a hot reducing gas largely composed of carbon monoxide and hydrogen is caused to flow countercurrent therethrough to reduce the iron ore thereof to iron, a cooling zone in the lower portion of the reactor in which a cooling gas is caused to flow countercurrent therethrough to cool the iron therein and an intermediate zone extending from the top of said cooling zone to the bottom of said reducing zone by

feeding said hot reducing gas into the lower end of said reduction zone to a first point of injection,

removing said reducing gas at a first point of removal in the upper end of said reduction zone,

feeding said cooling gas into the lower portion of said cooling zone to a second point of injection removing said cooling gas at a second point of removal in the upper end of said cooling zone,

characterized by minimizing intermixing of any reducing gas flowing through said reduction zone with any cooling gas flowing through said cooling zone by establishing a substantially optimized intermediate zone having an equivalent height equal to the vertical distance between said first point of injection and said second point of removal and an equivalent diameter equal to the shortest distance between the effective walls of said intermediate zone,

said intermediate zone having an equivalent height to equivalent diameter ratio in the range of 0.5 to 2.0.

(Compl. Specn. 27 pages.)

Drg. 2 sheets.)

CLASS : 187 C<sub>4</sub>.

157552

Int. Cl. : H 04 j 3/00; 5/00.

#### AN ACTIVE TYPE ASYNCHRONOUS DATA COMMUNICATIONS SYSTEM FOR TRANSMITTING INFORMATION BETWEEN A PLURALITY OF INTERCONNECTED AND SERIALLY ARRANGED TERMINALS.

Applicant : FMC CORPORATION AT 200 EAST RANDOLPH DRIVE CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventors : 1. KEITH SCHAFFNER CHAMPLIN, 2. ERNST CHARLES PREIMESBERGER AND 3. GEORGE WILLIAM MILLER.

Application No. 1011/Cal/82 filed on August 31, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

An active type asynchronous data communications system for transmitting information between a plurality of interconnected and serially arranged terminals wherein a plurality of system users provide data at random intervals and of random length and wherein system dead time is minimized, comprising

a plurality of multiplex terminals in communication with one of the system users,

(2)

a transmitter and a receiver in each of said terminals,

a message component path communicating said transmitter in one of said terminals with said receiver in another of said terminals so that said path describes a continuous loop extending from and returning to each of said terminals,

means in each of said multiplex terminals for accepting data from said receiver and for providing said data to one of the system users in communication therewith,

means in each of said multiplex terminals for transferring data to said transmitter from one of the system users in communication therewith,

means in each of said multiplex terminals for controlling said terminal to operate in a transmit access mode so that data is transmitted thereby from a user in communication therewith and to operate in a relay mode so that data is relayed from said receiver to said transmitter from retransmittal along said path to a user in communication with another of said terminals.

(Compl. Specn. 56 pages.

Drg. 8 sheets.)

### OPPOSITION PROCEEDINGS

(1)

The application for Patent 151511 made by Stanfer Chemical Co. against which an Opposition was entered by Council of Scientific and Industrial Research as notified in the Gazette of India Part III, Section 2 dated 26-11-1983 has been treated as abandoned.

(2)

The application for Patent No. 156333 (87/Mas/82) by Carborundum Universal Limited, Madras, in respect of which an opposition was entered by Council of Scientific & Industrial Research, New Delhi as notified in the Gazette of India, Part-III, Section 2 dated the 1st February, 1986 has been treated as withdrawn.

(3)

An opposition has been entered into by M/s. Harish Textile Engineers Private Limited, Bombay to the grant of a patent on application for Patent No. 156738 made by M/s. SIM-Maneklal Industries Limited, Gujarat.

### PATENTS SEALED

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### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specification are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy:—

(1)

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 154544 154545 154902 154906 154908 154941 154942 155054  
 155060 155061 155092 155226 155261 155277.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 156181. Meers Metal Industries, (a registered Partnership firm) at Mahavir Metal Industries Compound, 2nd Floor, Opp. R. K. Studio, Sion Trombay Road, Chembur, Bombay-400 071. State of Maharashtra, India. "Container". 29th October, 1985.

Class 1. No. 156198. Ratnakar Ganesh Patwardhan (Indian National) of R. P. Products, 55 Hindu Colony, Dadar, Bombay-400 014, State of Maharashtra, India. "STAND". 31st October, 1985.

Class 1. No. 156194. Suzuki Jidosha Kogyo Kabushiki Kaisha, a corporation duly organized and existing under the laws of Japan, of 300, Kamimura Takatsuka, Hamamagun, Shizuoka-ken, Japan. "Motor Bicycle". 29th October, 1985.

Class 1. No. 156378. Airwick Industries Inc., 111 Commerce Road, Carlstadt, New Jersey 07072, U.S.A., A Company organized and existing under the laws of United States of America, "Vapor Dispensing Device". 2nd December, 1985.

Class 3. Nos. 156554, 156555, 156556, 156557, 156558, 156559, 156560, 156562. Paman Products Private Limited, having its registered office at 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay-400 016, Maharashtra, India, an Indian company incorporated under the Companies Act. "Radio". 22nd January, 1986.

Class 3. Nos. 156496, 156497. Crystal Plastics & Metallizing Private Limited, Sanghi House, Palkhi Galli, Off Veer Savarkar Road, Prabhadevi, Bombay-400025, State of Maharashtra, India, a Private Limited Company incorporated under the Indian Companies Act, "Comb". 2nd January, 1986.

Class 3. No. 15614. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block "A", Dr. Annie Basant Road, Worli, Bombay 18(WB), Maharashtra, India, an Indian Company. "Speaker for Stereo Radio Recorder". 8th October, 1985.

Class 3. No. 156402. Shrimati Bhamini Dilipshi Sampat, Indian National, of Unique Enterprises 149, Prathna Samaj, 22/2nd floor, Bombay 400 004, State of Maharashtra, India. "Tooth Pick". 5th December 1985.

Class 3. Nos. 156117, 156118. Kotak Lace, Craft, M.S. Building No. 13, 1st floor, Room No. 451, Chembur Colony, Bombay 400074, Maharashtra State, India, an Indian Sole Proprietary Firm. "Faster". 10th October, 1985.

Class 3. No. 156031. Sab Electronics Private Limited (a company incorporated under the Companies Act) at 302-A Poonam Chambers, 3rd floor, Dr. Annie Besant Road, Worli, Bombay 400 018, State of Maharashtra, India. "Transistor Radio". 9th September, 1985.

Class 3. No. 156367. Shaw Wallace and Company Limited, 4, Bankshall Street, Calcutta-700 001, West Bengal India, a company registered under the Indian Companies Act, 1913. "Soap Dish". 2nd December 1985.

Class 10. No. 155999. Acupressure Research Centre, 13, Bhuvaneshwari, Ramnagar, Borivali (West), Bombay-400092, State of Maharashtra, an Indian Sole Proprietary firm. "Footwear". 30th August, 1985.

Class 13. No. 156115. Dynamic Orthopaedic, a Partnership firm of Desam, Alwaye 683 103, Kerala, India, "a Bandage". 8th October, 1985.

*Extn. of Copyright for the Third period of five years*

Nos. 144663, 144083, 144653, 144935, 144029, 144027, 144025, 144024, 144973..... Class-1.  
 Nos. 144664, 144030, 144084, 144650, 144655, 144809, 144972, 144938, 144028, 144937, 144026, 144974, Class-2.

R. A. ACHARYA  
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